### PATENT COOPERATION TREA (Y

#### From the INTERNATIONAL BUREAU

#### **PCT**

#### **NOTIFICATION OF ELECTION**

(PCT Rule 61.2)

SWEENEY, Edward

To:

Commissioner **US Department of Commerce** United States Patent and Trademark Office, PCT 2011 South Clark Place Room CP2/5C24 Arlington, VA 22202

**ETATS-UNIS D'AMERIQUE** Date of mailing (day/month/year) in its capacity as elected Office 08 February 2001 (08.02.01)

Applicant's or agent's file reference International application No. BR/ES/P01PCT PCT/GB00/01989 Priority date (day/month/year) International filing date (day/month/year) 01 June 1999 (01.06.99) 01 June 2000 (01.06.00) **Applicant** 

1.	. The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	28 December 2000 (28.12.00)
	in a notice effecting later election filed with the International Bureau on:
2	. The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Zakaria EL KHODARY

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35



#### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.
BR/ES/P01PCT	ACTION	**
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/GB 00/01989	01/06/2000	01/06/1999
Applicant		
CUEENEY Educad		
SWEENEY, Edward		
This International Search Report has bee according to Article 18. A copy is being to	n prepared by this International Searching Aut ansmitted to the International Bureau.	hority and is transmitted to the applicant
This International Search Report consists  It is also accompanied by	of a total of sheets.  a copy of each prior art document cited in this	s report.
Basis of the report		
<ul> <li>a. With regard to the language, the language in which it was filed, un</li> </ul>	international search was carried out on the ba less otherwise indicated under this item.	sis of the international application in the
the international search w Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of t	the international application furnished to this
was carried out on the basis of th  contained in the internation filed together with the internation furnished subsequently to the statement that the suinternational application a	e sequence listing: onal application in written form. emational application in computer readable for o this Authority in written form. o this Authority in computer readble form. bsequently furnished written sequence listing of as filed has been furnished.	
fumished	out our constable (Oce Boul)	
2. Certain claims were foul 3. Unity of invention is lace	ind unsearchable (See Box I). eking (see Box II).	
	,	
4. With regard to the <b>title</b> ,		
	ubmitted by the applicant.	
The text has been establis	shed by this Authority to read as follows:	
5. With regard to the abstract,		
	ubmitted by the applicant.	
th t xt has been establis within on month from th	sh d, according to Rul 38.2(b), by this Author date of mailing of this international search re	ity as it appears in Box III. The applicant may, port, submit comments to this Authority.
6. The figure of the drawing to be pub	lish d with the abstract is Figure No.	1
X as suggested by the appl	icant.	None of the figures.
because the applicant fai	led to suggest a figure.	
because this figure better	r characterizes the invention.	

A. CLASSI IPC 7	FICATION OF SUBJECT MATTER A47L4/04		
		e-star and IDO	
	o International Patent Classification (IPC) or to both national classi SEARCHED	lication and IPC	
	ocumentation searched (classification system followed by classific	ation symbols)	
IPC 7	A47L D06F B08B		
Documental	tion searched other than minimum documentation to the extent tha	t such documents are included in the fields se	earched
Electronic d	lata base consulted during the international search (name of data	base and, where practical, search terms used	1)
EPO-In	ternal		
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.
Α	DE 44 03 518 A (FORON WASCHGERÄ 10 August 1995 (1995-08-10)	TE GMBH)	
A	DE 196 46 340 A (S. KRIEG ET AL 14 May 1998 (1998-05-14)	.)	
A	EP 0 331 542 A (THE PROCTER & G. COMPANY) 6 September 1989 (1989)		
Α	DE 88 01 528 U (ROBERT FINKE KG 17 March 1988 (1988-03-17)	)	
			))
Furt	ther documents are listed in the continuation of box C.	X Patent family members are listed	l in annex.
Special ca	ategories of cited documents:	"T" later document published after the into	emational filing date
	ent defining the general state of the art which is not dered to be of particular relevance	or priority date and not in conflict with cited to understand the principle or the	the application but
1	document but published on or after the international	invention  "X" document of particular relevance; the cannot be considered novel or cannot	claimed invention
"L" docume which	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another	involve an inventive step when the de "Y" document of particular relevance; the	ocument is taken alone claimed invention
"O" docum	on or other special reason (as specified) nent referring to an oral disclosure, use, exhibition or	cannot be considered to involve an in document is combined with one or ments, such combination being obvious	ventive step when the ore other such docu-
*P* docum	means tent published prior to the international filing date but than the priority date claimed	in the art.  *&* document member of the same patent	•
	actual completion of the international search	Date of mailing of the international se	earch report
2	28 September 2000	06/10/2000	
Name and	mailing address of the ISA	Authorized officer	
	European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tol. (131, 70) 340-200, Tx, 31,651 epo pl		
1	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Bourseau, A-M	

### INTERNATIONAL SEARCH REPORT

ormation on patent family members

ernational Application No PCT/GB 00/01989

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 4403518	Α	10-08-1995	NONE	
DE 19646340	Α	14-05-1998	NONE	
EP 0331542	A	06-09-1989	FR 2626589 A FR 2627198 A FR 2626590 A FR 2632052 A BR 8900544 A JP 1287199 A	04-08-1989 18-08-1989 04-08-1989 01-12-1989 10-10-1989
DE 8801528	 บ	 17-03-1988	MX 170830 B US 5129120 A FR 2626590 B NONE	20-09-1993 14-07-1992 29-03-1991 





### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's BR/ES/F	_	nt's file reference	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
			International filing date (day/mont	h/year) Priority date (day/month/year)
PCT/GB		cation No. 989	01/06/2000	01/06/1999
	nal Pate		tional classification and IPC	
Applicant SWEEN		dward		
and i	is trans	smitted to the applicant a	according to Article 36.	d by this International Preliminary Examining Authority
2. This	REPO	RT consists of a total of	7 sheets, including this cover s	sheet.
	been a (see Ri	mended and are the bas	sis for this report and/or sheets on the Administrative Instruction	ne description, claims and/or drawings which have containing rectifications made before this Authority ions under the PCT).
3. This		contains indications rela	ating to the following items:	· .
II				
III	_			ventive step and industrial applicability
IV		Lack of unity of invention		· ·
V			nder Article 35(2) with regard to ons suporting such statement	novelty, inventive step or industrial applicability;
VI		Certain documents cite	· -	
VII		Certain defects in the in	nternational application	
VIII	Ø	Certain observations of	n the international application	
Date of su	ıbmissio	n of the demand	Date of	completion of this report
28/12/20	000		18.10.2	2001
		address of the internation	Authori:	zed officer
<b>)</b>	D-80	pean Patent Office 298 Munich +49 89 2399 - 0 Tx: 523656	Korn,	к-с
	_	+49 89 2399 - 4465	· ·	one No. ±49.89 2399 2342

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/01989

		sis of the report
1.	the and	n regard to the <b>elements</b> of the international application (Replacement sheets which have been furnished to receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): scription, pages:
	1-5	as originally filed
	Cla	ims, No.:
	1-1	as originally filed
	Dra	wings, sheets:
	1/4-	4/4 as originally filed
2.	With lang	n regard to the <b>language</b> , all the elements marked above were available or furnished to this Authority in the guage in which the international application was filed, unless otherwise indicated under this item.
	The	se elements were available or furnished to this Authority in the following language: , which is:
		the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of publication of the international application (under Rule 48.3(b)).
		the language of a translation furnished for the purposes of international preliminary examination (under Rule $55.2$ and/or $55.3$ ).
3.	With	n regard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application, the rnational preliminary examination was carried out on the basis of the sequence listing:
		contained in the international application in written form.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority in written form.
		furnished subsequently to this Authority in computer readable form.
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

Form PCT/IPEA/409 (Boxes I-VIII, Sheet 1) (July 1998)

☐ the description, pages:
☐ the claims, Nos.:

4. The amendments have resulted in the cancellation of:

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/01989

		the drawings,	sheets:
5.		This report has been considered to go bey	established as if (some of) the amendments had not been made, since they have been ond the disclosure as filed (Rule 70.2(c)):
		(Any replacement sh report.)	eet containing such amendments must be referred to under item 1 and annexed to this
6.	Add	litional observations, i	f necessary:
III.	Nor	n-establishment of o	pinion with regard to novelty, inventive step and industrial applicability
	The	questions whether th	e claimed invention appears to be novel, to involve an inventive step (to be non- ally applicable have not been examined in respect of:
	∐ ⊠	the entire internation claims Nos. 11.	а аррисаноп.
be	caus	se:	
		the said international not require an international	application, or the said claims Nos. relate to the following subject matter which does ational preliminary examination ( <i>specify</i> ):
	⊠		ns or drawings ( <i>indicate particular elements below</i> ) or said claims Nos. 11 are so unclean pinion could be formed ( <i>specify</i> ):
		the claims, or said cl could be formed.	aims Nos. are so inadequately supported by the description that no meaningful opinion
		no international sear	ch report has been established for the said claims Nos
2.	and	eaningful internationa /or amino acid sequel ructions:	al preliminary examination cannot be carried out due to the failure of the nucleotide noce listing to comply with the standard provided for in Annex C of the Administrative
		the written form has	not been furnished or does not comply with the standard.
		the computer readab	le form has not been furnished or does not comply with the standard.
٧.			der Article 35(2) with regard to novelty, inventive step or industrial applicability; ons supporting such statement
1.	Sta	tement	
٠	No	relty (N)	Yes: Claims 1-10
	1401	City (14)	100. Claimo i iv

#### INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No. PCT/GB00/01989

No: Claims

Yes: Claims 3-10 Inventive step (IS)

Claims 1, 2

No:

Claims 1-10 Industrial applicability (IA) Yes:

Claims No:

2. Citations and explanations see separate sheet

### VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

### VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

# Ad section III

Independent claim 11 is so unclear within the meaning of Article 6 PCT (see section VIII) that no meaningful opinion could be formed with regard to novelty or inventive step.

#### Ad section V

- The following documents have been considered for the purposes of this 1. preliminary report:
  - (D1) DE-A-3716989 (see column 1, line 46-column 2, line 38 and Figs.1,2)
  - (D2) US-A-5017239
  - (D3) DE-A-4403518 (see especially claims 1-3 and Fig.1)

The documents (D1) and (D2) were not cited in the international search report.

- Each of the documents cited above relates to an apparatus for cleaning vertical 2. window blinds of the type which include a plurality of strips of a flexible fabric material. (D1) is regarded as being the closest prior art document in respect of the subject-matter of claim 1.
- The subject-matter of apparatus claim 1 is new in terms of the relevant state of 3. the art (Article 33(2) PCT), since none of the available prior art documents discloses the combination of all the features set out in claim 1.
- The subject-matter of independent claim 1 is distinguished from the washing aid 4. known from the document (D1) (see the reference signs 2-4,7 in Figs.1,2) only in that the holder of drum shape which is known per se from the disclosure of (D1) has a perforated/slotted wall, instead of having a perforated/slotted bottom plate.
- 4.1 However, the distinguishing feature is merely one of several straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill, in order to solve the problem posed (see e.g. the slotted wall of the hollow body (3) as depicted in Fig.1 of the device known from (D3)).

- 4.2 The subject-matter of claim 1 does, therefore, not involve an inventive step in view of the combination of teaching of (D1) and (D3) and does not satisfy the criterion set forth in Article 33(3) PCT.
- To provide the axial core as depicted in Fig.2 of (D1) as a one-piece component 5. or a two-piece component, i.e. a male/female attachment in each part of the holder, is a result of routine design considerations in view of the teaching of (D1), and as such does not contribute any inventive matter to claim 1.
  - Thus, the subject-matter of dependent claim 2 does not involve an inventive step (Article 33(3) PCT).
- The combination of features of claims 1, 2 and 3 is neither known from, 6. nor rendered obvious by, the available prior art.
  - The subject-matter of an independent apparatus claim drafted on the basis of the present claims 1, 2 and 3 is considered to involve an inventive step, and would, therefore, have satisfied the criterion set forth in Article 33(3) PCT.
- Claims 4-10 which are concerned with particular embodiments of the washing aid 7. would then have been dependent directly or indirectly on an independent apparatus claim including the features of present claims 1-3, and would, thus, also have satisfied the criterion set forth in Article 33(3) PCT.
- It is also self evident that the subject-matter of claims 1-10 can be considered as 8. being susceptible of industrial application within the meaning of Article 33(4) PCT.

#### Ad section VII

Independent claim 1 is not in the two-part form in accordance with Rule 6.3(b) 9. PCT, which in the present case would have been apppropriate, with those features known in combination from the closest prior art document (D1) being placed in the pre-characterising part (Rule 6.3(b)(i) PCT) and with the remaining features being included in the characterising part (Rule 6.3(b)(ii) PCT). 大学 人名英格兰 医二氏管 (1)

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT - SEPAR

**EXAMINATION REPORT - SEPARATE SHEET** 

- 9.1 The applicant has not provided reasons why apparatus claim 1 should not be in the two-part form.
  - Neither did he clearly indicate in the description which features of the subject-matter of claim 1 are already known from the document **(D1)** (see the PCT Guidelines, PCT/GL/3 III,2.3a).
- 10. The documents (D1),(D2) and (D3) have not been identified in the description, nor has the relevant background art disclosed therein been briefly discussed. The requirements of Rule 5.1(a)(ii) PCT are, thus, not fulfilled.
- 11. The features of the claims are not provided with reference signs placed in parantheses (Rule 6.2(b) PCT).

#### Ad section VIII

- 12. Independent claim 11 rely only on references to the drawings, to define the matter for which protection is sought.
  - According to Rule 6.2(a) PCT, claims should not contain such references except where absolutely necessary, which is not the case here (see also the Guidelines PCT/GL/3 III, 4.10).
  - It follows that in the present case the wording of claim 11 is legally uncertain, i.e. the subject-matter to be protected is not clear.

Accordingly, independent claim 11 should have been either amended or deleted from the body of the claims.

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# (19) W rld Intellectual Property Organization International Bureau



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## (43) International Publication Date 7 December 2000 (07.12.2000)

#### **PCT**

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(51) International Patent Classification7:

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A47L 4/04

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(25) Filing Language:

English

(26) Publication Language:

**English** 

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1 June 1999 (01.06.1999) GB

(71) Applicant and

(72) Inventor: SWEENEY, Edward [GB/GB]; 16 Clontarf Drive, Omagh BT78 5BD, County Tyrone (GB).

(74) Agent: ROBERTSON, Robert, Bruce, Spence; 240 Upper Newtownards Road, Belfast BT4 3EU (GB).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK,

DZ, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW.

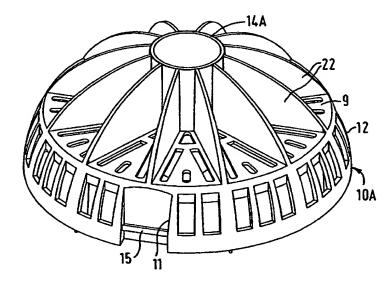
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

#### Published:

- With international search report.
- Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: LOUVRE BLIND WASHING AID



(57) Abstract: A washing aid for use in cleaning the flexible slats of a louvre blind comprises a slat holder (10) whose wall surround (12) is of openwork to allow passage of cleaning medium therethrough. The holder (10) internally defines a chamber of substantially drum shape whose axial length and diameter are substantially the same as a roll of slats to be accommodated therein. The holder (10) is in two parts (10A, 10B) openable to locate a roll therein and securable together to hold the roll during washing. The holder (10) has an axial core (14) in each part (10A, 10B). The core (14) is hollow and is perforated or slotted. The securing of the parts (10A, 10B) together is by two or more external fasteners (15) engaging both parts (10A, 10B).

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#### LOUVRE BLIND WASHING AID

This invention relates to a vertical louvre blind washing aid.

A problem exists in the washing of flexible slats or vanes of vertical louvre blinds, the slats being made from material having similar sleeves at the top and bottom ends into which a hanger and a ballaster are respectively fitted for each slat.

Through use, such slats become dirty, or discoloured by, for example smoking, and periodically require to be cleaned. While this operation can be performed by commercial laundry establishments, in most domestic locations they are cleaned by the householder. Most windows, to which a louvre blind is fitted on a rail across the top of the window, has one or two arrangements of slats. In each arrangement, the slats are connected together by their ballasters being linked by flexible connectors with the hangers being suspended on hooks provided on corresponding slides on the rail and having a common cord control, whereby they can be opened, shut or angled. In the one arrangement version, the slats are opened to one side of the window, and in the two arrangement version, with normally the same number of slats in each arrangement, the slats are opened, one arrangement to each side of the window. Rather than being washed individually, the slats of each arrangement are washed together. Heretofore, one of the means employed by the householder, having removed an arrangement from the rail, is to roll the arrangement of slats (after the hangers, ballasters and connectors have been removed) into a roll and, as a means of preventing axial movement of one slat relative to its neighbours, places one or more elastic bands or ties therearound before placing the roll into the washing machine. While this prevents relative axial movement of the slats, it inhibits the cleaning of the slats in the washing process and is therefore a disadvantage.

An object of the present invention is to obviate or mitigate this disadvantage.

Accordingly, the present invention is a washing aid for use in cleaning the flexible slats of a louvre blind, the aid comprising a slat holder whose wall surround is

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of openwork to allow passage of fluid therethrough, the holder internally defining a chamber of substantially drum shape whose axial length and diameter are substantially the same as a roll of slats to be accommodated therein, the holder being in two parts openable to locate a roll therein and securable together to hold the roll during washing.

Preferably, the holder has an axial core in each part. The core is desirably hollow and may be perforated or slotted. The securing of the parts together may be by two or more external fasteners engaging both parts. Alternatively, the top of one part of the core may have a series of protuberances to be a push fit into a corresponding series of holes in the other part. Further alternatively, the outer end of one part of the core may be formed as a socket and the other outer end as a spigot.

Preferably also, the outside of the holder is formed as a sphere or substantially so to assist in the tumbling movements of the aid when located in a washing machine. The two parts may be similar in shape, the spherical structure being formed by a plurality of quadrant shaped web plates between an extended core and a surface of the chamber.

Preferably further, a container for dispensing a cleaning medium in liquid or tablet form is provided to fit inside the axial cores, the container having an annular projecting flange to be engaged by the end faces of the cores when assembled. The container preferably has a series of slots or apertures therein to allow flow of water thereinto and medium thereout.

An embodiment of the present invention will now be described, by way of example, with reference to the accompanying drawings, in which:-

- Fig. 1 is an exploded perspective view of two parts of a washing aid according to the present invention;
  - Fig. 2 is a side elevational view of the washing aid;
  - Fig. 3 is a cross-sectional view on line III III of Fig. 2;

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Fig. 4 is a plan view of a top part of the aid;

Fig. 5 is a cross-sectional view on the line V – V of Fig. 4;

Fig. 6 is a cross-sectional view on line VI – **V**I of Fig. 4; and

Fig. 7 is a perspective view of one part of the aid showing a container for cleaning medium about to be located.

Referring to the drawings, a washing aid for use in cleaning flexible slats of a louvre blind comprises a slat holder 10 whose wall surround 12 is of openwork to allow passage of fluid therethrough and having a perforated/slotted bottom plate 8 and a perforated/slotted top plate 9. The holder 10 internally defines a chamber of substantially drum shape whose depth and diameter are substantially the same as a roll of slats (not shown) to be accommodated therein. There are at least two standard widths for slats. The chamber is dimensioned to accommodate the larger width. An annular perforated/slotted spacer (not shown), of diameter just short of the diameter of the chamber, is provided to be used with the smaller width slats, the spacer reducing the axial length of the chamber. The holder 10 is in two parts 10A, 10B openable to locate a roll therein and securable together to hold the roll during washing by use of three fasteners 13, equi-spaced around the periphery as shown. As shown, each part 10A, 10B is similarly provided with three recesses 11 in each of which, a bar 15 is provided, the axis of which lies in a plane parallel to the top and bottom of the chamber. Each fastener 13 is elongate and has at one end a C-clip 15A to encompass a bar 15 of one part and near to the other end has a ledge 15B. When a fastener 13 is fitted, the ledge underlies the bar 15 of the other part as shown. The portion of the fastener 13 beyond the ledge 15B serves as a finger grip to open the fastener from its clipped position. To close the fastener 13, it is simply pushed against the bar 15 of the other part and the body of the fastener 13 flexes to ride over the bar 15 and catch the bar in its closed position. Each fastener 13 is

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normally held on the bar 15 of the one part and pivots thereabout but can be removed by pulling it apart from the bar 15.

The holder 10 has an axial core 14. The core 14 is hollow and perforated/ slotted as shown. The outside of the holder 10 is formed as a sphere 20 or substantially so to assist in the tumbling movement of the aid when located in the washing machine. The two parts 10A, 10B are similar in shape, the spherical structure being formed by a plurality of quadrant shaped web plates 22 between an extended core 14A and the top and bottom surfaces of the chamber.

A container 24 for dispensing a cleaning medium in liquid or tablet form is provided to fit inside the axial cores 14, the container 24 having an annular projecting flange 26 to be engaged by the inner end faces of the cores 14 when assembled. The container 24 has a series of slots or apertures 28 therein to allow flow of water thereinto and cleaning medium thereout..

In a first modification (not shown), the securing of the parts 10A, 10B together is by the top of one part of the core 14 having a series of protuberances to be a push fit into a corresponding series of holes in the other part 10B. Alternatively, the core 14 is in two parts 14A, 14B provided on corresponding parts 10A, 10B, part 14B being of slightly greater depth than part 10B. The outer end of part 14A is formed as a socket and the outer end of part 14B as a spigot to fit inside and be secured in the socket end by push-fitment.

In a second modification (not shown), the core 14 is provided in one part of the holder and a hole is provided in the other part. The core 14 extends slightly more than the axial depth of the holder and at or adjacent to its outer end has one continuous protuberance to be a push fit through the hole.

In use, an arrangement of slats is formed into a roll and fitted into part 10A of the holder 10 around the core 14 and the part 10B is secured thereto. The holder is WO 00/72738 PCT/GB00/01989

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then placed in a washing machine and with the machine energised, tumbles around inside.

The slats in the holder 10 are prevented from moving axially relative to each other but can move radially to each other thereby to allow the cleaning medium in the machine to reach all parts of the slats for cleaning the slats.

Variations and other modifications can be made without departing from the scope of the invention described above and as claimed hereinafter.

#### **CLAIMS**

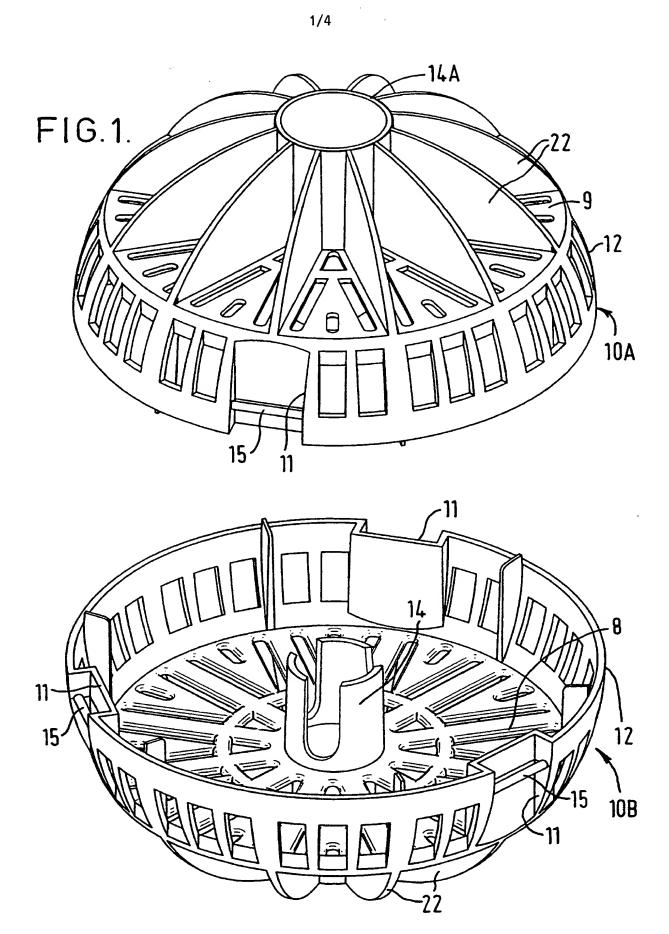
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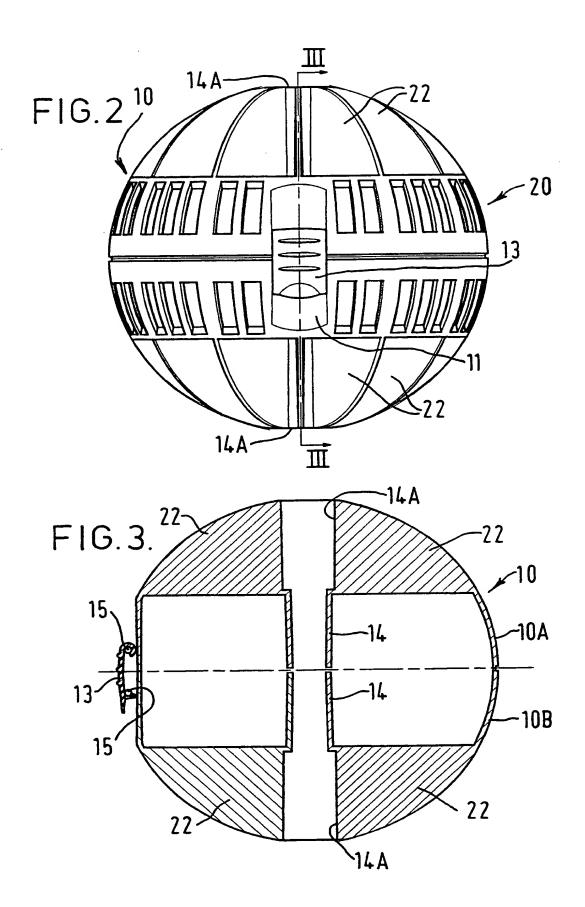
- 1. A washing aid for use in cleaning the flexible slats of a louvre blind, the aid comprising a slat holder whose wall surround is of openwork to allow passage of fluid therethrough, the holder internally defining a chamber of substantially drum shape whose axial length and diameter are substantially the same as a roll of slats to be accommodated therein, the holder being in two parts openable to locate a roll therein and securable together to hold the roll during washing.
  - 2. An aid as claimed in Claim 1, wherein the holder has an axial core in each part.
- 15 3. An aid as claimed in Claim 1 or 2, wherein the core is hollow and is perforated or slotted.
  - 4. An aid as claimed in Claim 1, 2 or 3, wherein the securing of the parts together is by two or more external fasteners engaging both parts.
  - 5. An aid as claimed in any one of the preceding Claims, wherein the outside of the holder is formed as a sphere or substantially so to assist in the tumbling movements of the aid when located in a washing machine.
- 25 6. An aid as claimed in Claim 5, wherein the two parts are of similar shape, the spherical structural being formed by a plurality of quadrant shaped web plates between an extended core and a surface of the chamber.

7. An aid as claimed in any one of Claims 2 to 6, wherein a container for dispensing a cleaning medium of liquid or tablet form is provided to fit inside the axial cores, the container having an annular projective flange to be engaged by the inner end faces of the cores when assembled.

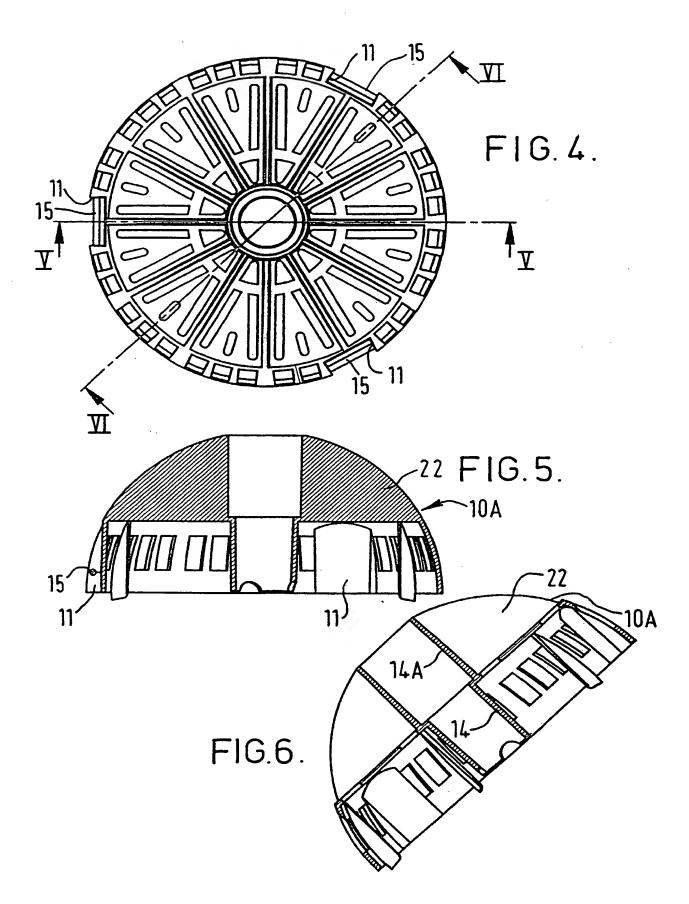
- 8. An aid as claimed in Claim 7, wherein the container has a series of apertures therein to allow flow of water thereinto and medium thereabout.
- 9. An aid as claimed in Claim 1, 2 or 3, wherein the top of one part of the core has a series of protuberances to be a push fit into a corresponding series of holes in the other part.
- 10. An aid as claimed in Claim 1, 2 or 3, wherein the outer end of one part of the core is formed as a socket and the other outer end as a spigot.
  - A washing aid substantially as hereinbefore described with reference to the accompanying drawings.



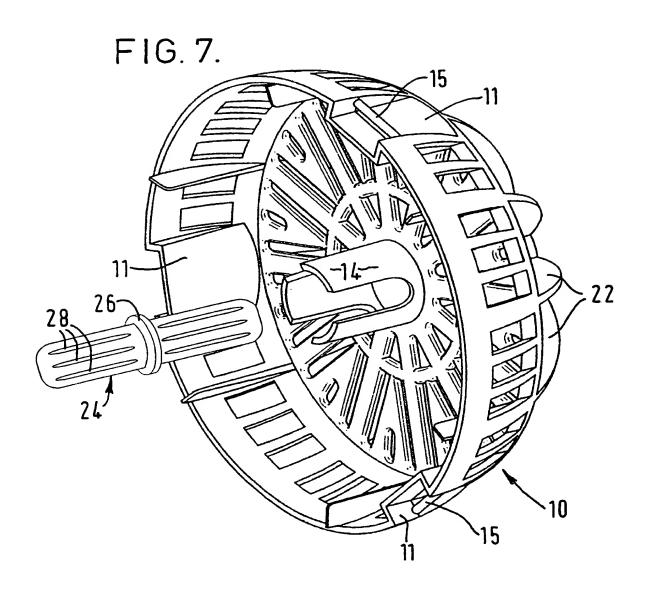
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A. CLASSI IPC 7	FICATION OF SUBJECT MATTER A47L4/04		
According to	o International Patent Classification (IPC) or to both national classi	ification and IPC	
<del></del>	SEARCHED		
Minimum do IPC 7	ocumentation searched (classification system followed by classific A47L 006F B08B	cation symbols)	
Documenta	tion searched other than minimum documentation to the extent tha	at such documents are included in the fields sea	arched
Electronic d	data base consulted during the international search (name of data	base and, where practical, search terms used)	
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C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.
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Furt	Ither documents are listed in the continuation of box C.	Patent family members are listed i	in annex.
	ategories of cited documents :	T* later document published after the inter	mational filing date
consid	ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international	or priority date and not in conflict with to cited to understand the principle or the invention	eory underlying the
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	ent published prior to the international filing date but han the priority date claimed	in the art.  *&" document member of the same patent f	amily
Date of the	actual completion of the international search	Date of mailing of the international sea	rch report
2	8 September 2000	06/10/2000	
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk	Authorized officer	
	NL - 2280 HV Hijswijk Tel. (+31-70) 340-2040, Tx. 31 651 eponi, Fax: (+31-70) 340-3016	Bourseau, A-M	



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